

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP 2004/013864

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl¹ H01M 8/02, H01M 8/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl¹ H01M 8/02, H01M 8/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 94/14203 A1 (FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V.) 1994.06.23, Whole document & JP 8-5042943 A & US 5723086 A	1, 3, 4, 6 2, 5
Y	WO 02/33709 A1 (UNI-CHEMICAL CO., LTD.) 2002.04.25, Whole document & JP 2003-86021 A & EP 1339072 A1 & US 2004/0044160 A1	2, 5
A	JP 5-109419 A (MITSUBISHI HEAVY IND. LTD.) 1993.04.30 (None Family)	1-6



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22.12.2004

Date of mailing of the international search report

11.1.2005

Name and mailing address of the ISA/JP

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	WO 03/081707 A1 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 2003.10.02 & JP 2003-282093 A & EP 1429408 A1	1-6